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United States
Department of
Agriculture

Agricultural
Marketing
Service

Plant Variety Protection Office Official Journal

Volume 15, No. 3
July—September
1987



APR 11 1988

PREFACE

The Plant Variety Protection Act (7 U.S.C. 2321 et seq.) authorizes the Secretary of Agriculture to publish an Official Journal to provide the public with information relating to the operations of the Plant Variety Protection Office. The statute also authorizes the Secretary to disseminate technological and other information that encourages innovation and progress in plant breeding.

The Official Journal, published quarterly, is available from:

Plant Variety Protection Office
Agricultural Marketing Service
U.S. Department of Agriculture
National Agricultural Library Bldg., Rm. 500
Beltsville, Maryland 20705

CONTENTS

	PAGE
Applications Received July 1 through September 30, 1987....	3
Certificates Issued, and Novelty Based on Applicant's Claim July 1 through September 30, 1987.....	13
Applications Amended July 1 through September 30, 1987....	24
Certificates Amended July 1 through September 30, 1987....	25
Applications Abandoned, Withdrawn, Denied, or Ineligible July 1 through September 30, 1987.....	26
Description of Public Varieties of Tomato.....	27

APPLICATIONS RECEIVED

JULY 1, 1987 to SEPTEMBER 30, 1987

Applications for protection have been filed for the following varieties. Each application has been assigned an application number and will be examined to determine whether the variety is entitled to a certificate of protection. Seed of these varieties may be labeled "Unauthorized Propagation Prohibited - U.S. Variety Protection Applied For."

APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
ALFALEA 8700171	PRO-CUT	08/04/87	W-L Research, Inc.
8700212	Webfoot	(2) 09/21/87	Michigan State University
BARLEY 8700186	Camelot	08/03/87	MMG Agriseed
BROCCOLI RAAB 8700192	D'Arrigo No. 502	08/17/87	D'Arrigo Bros. Co. of California
CAULIFLOWER 8700190	Alverda	08/17/87	TS Seeds BV

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CORN, FIELD			
8700170	PHG86	08/03/87	Pioneer Hi-Bred International, Inc.
8700172	78371A	08/06/87	Dekalb-Pfizer Genetics
8700173	FBHJ	08/06/87	Dekalb-Pfizer Genetics
8700174	PB80	08/06/87	Dekalb-Pfizer Genetics
8700175	MBPM	08/06/87	Dekalb-Pfizer Genetics
8700196	IBB15	08/24/87	Dekalb-Pfizer Genetics
8700197	IB02	08/24/87	Dekalb-Pfizer Genetics

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CORN, FIELD			
8700198	IBC2	08/24/87	Dekalb-Pfizer Genetics
8700213	IH59	09/24/87	Holden's Foundation Seeds, Inc.
8700214	PHK29	09/28/87	Pioneer Hi-Bred International, Inc.
COTTON			
8700165	Arkot 518	(3) 07/29/87	Arkansas Agricultural Experiment Station
8700210	Dunn HS 120	09/18/87	Dunn Seed Farms, Inc.
COWPEA			
8700185	CT Pinkeye Purplehull	08/13/87	C. T. Smith Company

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67

APPL. NO.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
FESCUE, HARD			
8700161	Serra	07/21/87	NPI Seed Inc., Oregon Division
FESCUE, TALL			
8700162	Martin	07/22/87	University of Missouri
8700163	Mozark	07/22/87	University of Missouri
8700177	Trident	08/07/87	International Seeds Inc.
8700178	Cajun	08/10/87	International Seeds Inc.
8700195	Rebel II	08/24/87	Lofts Seed, Inc.
8700199	Pacer	08/25/87	International Seeds Inc.

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LETTUCE			
8700179	Boston Rose	08/10/87	Genecorp, Inc.
8700180	Scarlett Butter	08/10/87	Genecorp, Inc.
8700181	Corsica	08/10/87	Royal Sluis B.V.
8700182	Kelvin	08/10/87	Royal Sluis B.V.
8700183	Esmeralda	08/10/87	Royal Sluis B.V.
8700208	Blazer	09/17/87	Genecorp Technology
8700211	Royal Red	09/18/87	Royal Sluis, Inc.

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RICE			
8700203	<IRM-2>	09/11/87	Rice Researchers, Inc.
RYEGRASS, PERENNIAL			
8700155	SR 4000	07/02/87	Seed Research of Oregon, Inc.
8700156	SR 4100	07/02/87	Seed Research of Oregon, Inc.
8700166	Commander	07/30/87	Pure-Seed Testing, Inc.
8700169	Fiesta II	07/31/87	Pickseed West, Inc.
8700176	Lindsay	08/10/87	International Seeds Inc.

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SAFFLOWER			
8700187	MT 3697	(*) 08/14/87	Montana Agricultural Experiment Station
SOYBEAN			
8700157	6727	07/07/87	Coker's Pedigreed Seed Company
8700158	6738	07/07/87	Coker's Pedigreed Seed Company
8700164	Pennyrile	(3) 07/27/87	Kentucky Agricultural Experiment Station
8700184	A4393	08/11/87	Asgrow Seed Company
8700191	NattoKing K86	08/12/87	King Grain Inc.
8700204	Hartz 5164	09/14/87	Jacob Hartz Seed Company, Inc.

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SOYBEAN			
8700209	Glenwood	(3) 09/18/87	Minnesota Agricultural Experiment Station
TOMATO			
8700189	Beall's Gourmet	08/19/87	Frances B. Chesser
8700194	<Sunex 1643>	08/24/87	Sunseeds Genetics, Inc.
TRITICALE			
8700205	Stan-I	09/14/87	Sunseeds Genetics, Inc.
8700206	Eve	09/14/87	Sunseeds Genetics, Inc.
8700207	Victoria	09/14/87	Sunseeds Genetics, Inc.

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TURNIP				
8700193	Mosa		08/17/87	Zelder B.V.
WHEAT, COMMON				
8700159	Coker 9733		07/16/87	Coker's Pedigreed Seed Company
8700160	Coker 9766		07/17/87	Coker's Pedigreed Seed Company
8700167	Cody	(3)	07/30/87	Board of Regents, University of Nebraska and USDA-ARS
8700168	Redland	(3)	07/30/87	Board of Regents, University of Nebraska and USDA/ARS

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WHEAT, COMMON				
8700188	<PB1-80-WW-5>	(3)	08/18/87	Plant Breeders 1, Inc.
8700200	Abilene	(3)	08/31/87	Nickerson American Plant Breeders, Inc.
8700201	Mesa	(3)	08/31/87	Nickerson American Plant Breeders, Inc.
8700202	2180		09/08/87	Pioneer Hi-Bred International, Inc.

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CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
BEAN, GARDEN				
8500036	Savor	09/30/87		Harris Moran Seed Company
	'Savor' is most similar to 'Triumph'; however, 'Savor' has a more spreading habit (60 vs 52 cm wide) than 'Triumph'.			
CLOVER, WHITE				
8200120	Aran	09/30/87		Germinal Holdings Limited
	'Aran' most closely resembles 'Blanca'; however, 'Aran' has longer (4.0 vs 3.5 cm), wider (3.3 vs 2.7 cm) leaves, and thicker (4.4 vs 3.5 mm) stolons than 'Blanca'.			
CORN, FIELD				
8700041	779	08/31/87		Northrup King Co.
	'779' is most similar to 'W117'; however, '779' has green anthers whereas 'W117' has pink anthers.			
8700087	IH60	07/31/87		Holden's Foundation Seeds, Inc.
	'IH60' most closely resembles 'Mol7Ht'; however, 'IH60' has a tassel branch angle of less than 30 degrees whereas 'Mol7Ht' has a tassel branch angle of 30 to 40 degrees.			

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COTTON				
8600161	Delcot 344	(3)	07/31/87	The Curators, University of Missouri
	'Delcot 344' is most similar to 'Delcot 311'; however, 'Delcot 344' has smaller seed (10.8 vs 12.8 g/100 seeds) and longer fibers (1.22 vs 1.12 in UFM) than 'Delcot 311'.			
8700005	GSC 27		08/31/87	Agrigenetics Corporation dba GroAgri Seed Company
	'GSC 27' most closely resembles 'GSA 75'; however, 'GSC 27' has higher yarn tenacity (132 vs 119 mN/tex) and higher fiber strength (28.8 vs 27.7 g/tex) than 'GSA 75'.			
8700006	GSC 71+		08/31/87	Agrigenetics Corporation dba GroAgri Seed Company
	'GSC 71+' is most similar to 'GSA 71'; however, 'GSC 71+' has a greater yarn tenacity (124 vs 100 mN/tex) and greater fiber strength (26.5 vs 25.0 g/tex) than 'GSA 71'. 'GSC 71+' has smaller seed (9.5 vs 10.9 g/100 seeds) than 'GSA 71'.			
8700061	Germain's Acala GC-410	(3)	07/31/87	C. Harvey Campbell, jr; H. P. Anderson III; Kenneth L. Puryear; David L. West
	'Germain's Acala GC-410' most closely resembles 'Acala SJ-2'; however, 'Germain's Acala GC-410' has longer lint fibers (1.18 vs 1.14 in) than 'Acala SJ-2'.			

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COTTON				
8700136	Acala BR-115 'Acala BR-115' most closely resembles 'Deltapine Acala 90'; however, 'Acala BR-115' has a greater fiber strength (28.9 vs 27.1 g/tex), longer fibers (1.18 vs 1.12 in UFM), and a larger boll diameter (33.7 vs 32.3 mm) than 'Deltapine Acala 90'.	(3)	07/31/87	Ronald D. Thorp
8700141	Tamcot GCNH 'Tamcot GCNH' most closely resembles 'Tamcot CAMD-E', but 'Tamcot GCNH' is glandless and nectariless.	(1)	08/31/87	Texas Agricultural Experiment Station
8700152	Tifcot 56 'Tifcot 56' most closely resembles 'Coker 315'; however, 'Tifcot 56' matures earlier (90 vs 87% first harvest), has darker green foliage, and has a shorter staple length (1.14 vs 1.19 in) than 'Coker 315'.	(3)	08/31/87	University of Georgia Agricultural Experiment Station
FESCUE, TALL				
8700019	Arid 'Arid' most closely resembles 'Rebel'; however, 'Arid' heads 3 days earlier and is taller (102 vs 94 cm) than 'Rebel'.		07/31/87	Jacklin Seed Company

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FESCUE, TALL				
8700065	Cimarron		07/31/87	Pure-Seed Testing, Inc.
	'Cimarron' most closely resembles 'Olympic' and 'Apache'; however, 'Cimarron' matures at least 6 days earlier than 'Apache', and at least 2 days earlier than 'Olympic'. The leaf orientation of 'Cimarron' in seed yield trials is more upright (50 vs 22% upright leaves) than 'Olympic'.			
8700081	Trailblazer		07/31/87	Pure-Seed Testing, Inc.
	'Trailblazer' most closely resembles 'Olympic' and 'Jaguar'; however, 'Trailblazer' matures at least 3 days earlier than 'Olympic' and at least 10 days earlier than 'Jaguar'. 'Trailblazer' is shorter (117 vs 130 cm) and has shorter flag leaves (12 vs 18 cm) than 'Olympic' and 'Jaguar'.			
8700121	Monarch		07/31/87	Pure-Seed Testing, Inc.
	'Monarch' most closely resembles 'Apache' and 'Bonanza'; however, 'Monarch' matures at least 3 days earlier than 'Apache' and eight days earlier than 'Bonanza'. 'Monarch' has a darker blue-green color [Royal Horticultural Society (RHS) Colour Chart 133A] compared to 'Apache' (RHS Colour Chart 136A) and 'Bonanza' (RHS Colour Chart 131A).			

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FESCUE, TALL				
8700122	Finelawn 5GL		07/31/87	Pure-Seed Testing, Inc.
	'Finelawn 5GL' most closely resembles 'Rebel' and 'Jaguar'; however, 'Finelawn 5GL' matures at least 3 days earlier than 'Jaguar' and at least 3 days later than 'Rebel'. 'Finelawn 5GL' is taller (135 vs 131 and 128 cm) than 'Jaguar' and 'Rebel'.			
LETTUCE				
8600144	Big Red		09/30/87	Genecorp Technology
	'Big Red' is most similar to 'Prize Head'; however, 'Big Red' has a darker purple color (183A vs 178A, RHS Colour Chart) than 'Prize Head'. 'Big Red' also has a darker green background color on the leaf (143B vs 150B RHS Colour Chart) than 'Prize Head'.			
8700002	Ramrod		07/31/87	Genecorp Technology
	'Ramrod' is most similar to 'Winterhaven', but 'Ramrod' has white seed whereas 'Winterhaven' has black seed.			
MUSKMELON				
8700083	PMR 45 Full Net		07/31/87	Shamrock Seed Company, Inc.
	'PMR 45 Full Net' is most similar to 'PMR 45'; however, 'PMR 45 Full Net' fruit does not have sutures whereas 'PMR 45' fruit does have sutures.			

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8700075	Tremont Scotch	07/31/87		Campbell Soup Company Campbell Institute for Research and Technology
	'Tremont Scotch' is most similar to 'Campbell Scotch'; however, 'Tremont Scotch' is resistant to pea enation virus and race 5 of <u>Fusarium oxysporum</u> whereas 'Campbell Scotch' is susceptible to these pathogens.			
8700095	Gain	08/31/87		Asgrow Seed Company
	'Gain' is most similar to 'Pomak'; however, 'Gain' has "afilia" type leaflets borne as tendrils whereas 'Pomak' has normal leaflets.			
8700096	Flair	09/30/87		Asgrow Seed Company
	'Flair' most closely resembles 'Rally'; however, 'Flair' is resistant to race 2 of <u>Fusarium oxysporum</u> whereas 'Rally' is susceptible. 'Flair' is a freezer type with dark green peas whereas 'Rally' is a canning type with light green peas.			
8700099	Menlo	09/30/87		W. Brotherton Seed Co., Inc.
	'Menlo' is most similar to 'Puget'; however, 'Menlo' is resistant to <u>Fusarium oxysporum</u> , races 5 and 6, whereas 'Puget' is susceptible.			

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RYEGRASS (LOLIUM X HYBRIDUM)				
8600029	Polly	(1)	09/30/87	Daehnfeldt, Inc.
'Polly' is more similar to 'Reveille' than to any other variety; however, 'Polly' plants are awned and have fluorescent roots whereas 'Reveille' is without awns and has 1 percent fluorescent roots.				
RYEGRASS, PERENNIAL				
8700084	246		09/30/87	Pure-Seed Testing, Inc.
The variety '246' is most similar to 'Citation II' and 'Manhattan II' perennial ryegrass; however, '246' matures 2 days later than 'Citation II' and at least 3 days earlier than 'Manhattan II'. The variety '246' has a darker blue-green color (139A vs 137A RHS Colour Chart) than 'Citation II' or 'Manhattan II'.				
SOYBEAN				
8700037	HS 302		07/31/87	Growmark, Inc.
'HS 302' is most similar to 'Harper'; however, 'HS 302' seeds have yellow hila whereas 'Harper' seeds have black hila.				

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SOYBEAN				
8700080	A0358		07/31/87	Asgrow Seed Company
	'A0358' is most similar to 'Ozzie' and 'Evans'; however, 'A0358' has white flowers whereas 'Ozzie' has purple flowers, and 'A0358' matures in 114 days whereas 'Evans' matures in 117 days.			
8700082	A4906		07/31/87	Asgrow Seed Company
	'A4906' most closely resembles 'Delmar', 'A4997', and 'Pershing'; however, 'A4906' has purple flowers and an indeterminate plant habit whereas 'Delmar' and 'Pershing' have white flowers, and 'A4997' has a determinate plant habit.			
8700097	Gnome 85	(3)	08/31/87	Ohio Agricultural Research and Development Center Ohio State University and USDA-ARS
	'Gnome 85' is most similar to 'Gnome'; however, 'Gnome 85' is resistant to <u>Phytophthora megasperma</u> (races 1 through 10, 13, 14, 15, 17, 18, 21, and 22) whereas 'Gnome' is susceptible.			

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SOYBEAN				
8700098	Ripley	(3)	08/31/87	Ohio Agricultural Research & Development Center Ohio State University and USDA-ARS
'Ripley' is most similar to 'Pixie'; however, 'Ripley' has gray pubescence and buff hila whereas 'Pixie' has brown pubescence and black hila.				
8700107	AP 1776		09/30/87	Nickerson American Plant Breeders, Inc.
'AP 1776' is most similar to 'TC 137'; however, 'AP 1776' has purple flowers and buff hila whereas 'TC 137' has white flowers and yellow hila.				
8700157	6727		09/30/87	Coker's Pedigreed Seed Company
'6727' is most similar to 'Braxton'; however, '6727' is resistant to race 3 of <u>Heterodera</u> <u>glycines</u> whereas 'Braxton' is susceptible.				
SPRUCE				
8500085	Hy-Blu	(3)	09/30/87	Michigan State University
'Hy-Blu' (Picea glauca x pungens F2) is most similar to white (Picea glauca) and blue (Picea pungens) spruce and can be most easily distinguished by needle color. 'Hy-Blu' has blue-green needles [5.0 BG/6/4 Munsell Student Color Chart (MSCC)], whereas blue spruce has blue needles (5.0 B/6/2 MSOC) and white spruce has green needles (5.0 G/4/4 MSOC).				

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TOBACCO				
8700040	K394		08/31/87	Northrup King Co.
	'K394' most closely resembles 'K399'; however, 'K394' is susceptible to root knot nematode whereas 'K399' is resistant.			
8700049	Coker 371 Gold	(1)	09/30/87	Coker's Pedigreed Seed Company
	'Coker 371 Gold' most closely resembles 'Hicks'; however, 'Coker 371 Gold' is highly resistant to black shank and bacterial wilt whereas 'Hicks' is susceptible. 'Coker 371 Gold' also has shorter internodes and a lower plant height than 'Hicks'.			
8700057	Speight G-108	(3)	08/31/87	Speight Seed Farms, Inc.
	'Speight G-108' most closely resembles 'Speight G-28'; however, 'Speight G-108' has smooth leaves whereas 'Speight G-28' has puckered leaves, and 'Speight G-108' grows taller (102 vs 97 cm) when compared to 'Speight G-28'.			
8700120	K317		08/31/87	Northrup King Co.
	'K317' is most similar to 'Coker 319'; however, 'K317' is resistant to race 0 of black shank whereas 'Coker 319' is susceptible.			

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Information concerning the varieties below has been published previously in the Official Journal's list of "APPLICATIONS RECEIVED." During the examination process, the applicant requested this information to be amended as indicated below.

APPL. NO.	VARIETY	GEN. (*)	APPL. DATE	NAME OF APPLICANT
RICE				
8600162	V7713		09/23/86	Farms of Texas Company
	Variety with designation of 'CB860' renamed 'V7713'.			
8700085	V4716		03/13/87	Farms of Texas Company
	Variety with designation of 'CB848' renamed 'V4716'.			
RYEGRASS, PERENNIAL				
8700064	Caliente		02/17/87	NPI Seed Inc., Oregon Division
	Name of applicant changed from NPI AgService Corporation to NPI Seed Inc., Oregon Division.			

(*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.
< > Identifies temporary designations.

CERTIFICATES AMENDED

JULY 1, 1987 TO SEPTEMBER 30, 1987

The following certificates have been amended in accordance with sections 180.103, 180.122, and 180.130 of the Regulations and Rules of Practice under the Plant Variety Protection Act.

CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
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CELERY

8400156	Napolean		12/27/85	Bud Antle, Inc.
	Name of owner changed from Scattini Seeds, Inc. to Bud Antle, Inc.			

ONION

8200019	Omo M		10/28/82	Les Produits Organiques du Santerre-Orsan S.A. and Mor-Green, Inc.
	Name of owner changed from Les Produits Organiques du Santerre-Orsan S.A. & Oshita, Inc. to Les Produits Organiques du Santerre-Orsan S.A. & Mor-Green, Inc.			

TOMATO

8500064	Mystro		09/30/87	Sunseeds Genetics, Inc.
	Name of owner changed from UF Genetics, Inc. to Sunseeds Genetics, Inc.			

(*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

APPLICATIONS ABANDONED, WITHDRAWN, DENIED, OR INELIGIBLE
JULY 1, 1987 TO SEPTEMBER 30, 1987

Applications for the varieties listed below are no longer being considered for U.S. plant variety protection. Although propagation of these varieties is no longer prohibited by the U.S. Plant Variety Protection Act, varieties published in this list may possibly be protected under the Patent Act.

<u>KIND</u>	<u>APPL. NO.</u>	<u>VARIETY</u>
BEAN, FIELD	8600159	Isabella

< > Identifies temporary designations.

DESCRIPTION OF PUBLIC VARIETIES

In accordance with section 180.800 of the Plant Variety Protection Act, descriptions of "public varieties" voluntarily submitted on PVP objective description forms will be accepted for publication in the Official Journal. Publication of such descriptions in no way constitutes recognition of the variety as novel or entitles it to protection under the Plant Variety Protection Act.

The following are descriptions of two tomato varieties developed and released by the North Carolina Agricultural Research Service, North Carolina State University, Raleigh, North Carolina. The "PV Number" assigned to each variety should not be construed as meaning the variety is protected under the PVP Act; it is merely the accession number of that variety in the Office's database of tomato variety descriptions.

Requests for seed samples and further information about these cultivars should be directed to Dr. D. F. Bateman, Director, North Carolina Agricultural Research Service, Box 7601, Raleigh, NC 27695-7601.

VOLUNTARY TOMATO DESCRIPTION

Variety Name: 'NC EBR-1'

PV Number: 8710001

An inbred line in the F₆ generation, derived from PI 126445 (which was a selection of Lycopersicon hirsutum) and 'Walter'. For three generations the F₁ was backcrossed to NC 50-7 with selection for early blight resistance (Exhibit A). The variety 'NC EBR-1' is most similar to 'Piedmont'; however, 'NC EBR-1' is resistant to the foliar phase of early blight (Alternaria solani) whereas 'Piedmont' is susceptible.

PV Number	8710001	
Crop Kind	TOMA	Pedicel L., mm 10
Variety Name	NC EBR-1	Fruit L., mm 050
Originator	N.C. ARS	Blossom End Rot R
		Blotchy Ripening R
Anthocyanin	Present	Fruit Bursting R
Habit Seedling	Normal	Catfacing R
Plant Height cm	120	Fruit Cracking R
Growth Habit	Determinate	Radial Cracking R
Plant Form	Normal	Fruit Pox R
Canopy Size	Large	Gold Fleck R
Uprightness	Semi-erect	Graywall R
Branching	Intermediate	Zippering R
Basal Branching	Present	Cucumber Mosaic NT
Vegetative Nodes	7-10	Curly Top NT
Lower Infl.Nodes	2	Potato-Y Virus NT
Upper Infl.Nodes	2	TMV Race 0 NT
Stem Pubescence	Moderately hairy	TMV Race 1 NT
Leaf Type	Tomato	TMV Race 2 NT
Leaf Margins	Deeply toothed	Spotted Wilt NT
Leaf Rolling	Absent	Tomato Yellows NT
Leaf Surface	Smooth	Bacterial Canker NT
Leaf Pubescence	Normal	Bact. Soft Rot NT
Inflor. Type	Simple	Bacterial Speck NT
No. Flowers/Infl	04	Bacterial Spot NT
Running Inflor.	Absent	Bacterial Wilt NT
Calyx	Normal	Anthrachnose NT
Calyx Lobes	Shorter than corolla	Pyrenochaeta Rot NT
Corolla Color	Yellow	Collar Rot/Cank. S
Style Pubesc.	Sparse	Early Blight R
Anther Morphol	Fused into tube	Fusarium Race 1 R
Fasciation	Absent	Fusarium Race 2 R
Fruit Shape	Globe	Fusarium Race 3 R
		Gray Leaf Spot NT

(Continued on next page)

VOLUNTARY TOMATO DESCRIPTION 'NC EBR-1' (Continued):

Fruit Cross-sect	Round	Late Blight R. 0	NT
Blossom End	Flat	Late Blight R. 1	NT
Stem End	Indented	Leaf Mold	NT
Pistil Scar	Stellate	Leaf Mold Race 1	NT
Abscission Layer	Present	Leaf Mold Race 2	NT
Fruit Detachment	At pedicel joint	Leaf Mold Race 3	NT
Fruit Diam., mm	070	Nailhead Spot	NT
Fruit Weight, g	177	Septoria Spot	NT
No. of Locules	5+	Target Leafspot	NT
Fruit Surface	Smooth	Verticillium R.1	R
Frt. Base Color	Light green	Verticillium R.2	NT
Fruit Pattern	Uniform	Colo. P. Beetle	NT
Ripe Fruit Color	Red	So. Nematode	NT
Ripe Flesh Color	Red	Spider Mite	NT
Flesh Uniformity	Uniform	Sugarbeet Worm	NT
Gel Color	Red	Flea Beetle	NT
Longit. Ripening	Uniform	Hornworm	NT
Centrif. Ripen.	Uniform	Fruitworm	NT
Epidermis Color	Yellow	Whitefly	NT
Epidermis Peel	Normal	Ozone	NT
Epidermis Textur	Average	Sulfur Dioxide	NT
		Other Pollutant	NT

Fruit Season	Medium	Use	Fresh Market
RelativeMaturity	Medium	Use	Breeding Line
Culture	Field	Machine Harvest	Not adapted
		Region Adapt.#1	Southeast

VOLUNTARY TOMATO DESCRIPTION

Variety Name: 'NC EBR-2'

PV Number 8710002

An inbred line in the F₆ generation which contains resistance to early blight obtained from C1943, a line released from the Campbell Research Institute. The variety was developed via pedigree breeding from the original cross ('Walter' x 'Flora-Dade') X (C1943 x STEP 675) (Exhibit A). The variety 'NC EBR-2' is most similar to 'Flora-Dade'; however, 'NC EBR-2' is resistant to stem (collar rot) and foliar lesion phases of early blight (Alternaria solani) whereas 'Flora-Dade' is susceptible.

PV Number	8710002	Blossom End Rot	R
Crop Kind	TOMA	Blotchy Ripening	R
Variety Name	NC EBR-2	Fruit Bursting	R
Originator	N.C. ARS	Catfacing	R
		Fruit Cracking	R
		Concentric Crack	R
Anthocyanin	Present	Radial Cracking	R
Habit Seedling	Normal	Fruit Pox	R
Plant Height cm	105	Gold Fleck	R
Growth Habit	Determinate	Graywall	R
Plant Form	Normal	Zippering	R
Canopy Size	Large	Cucumber Mosaic	NT
Uprightness	Semi-erect	Curly Top	NT
Branching	Intermediate	Potato-Y Virus	NT
Basal Branching	Present	TMV Race 0	NT
Vegetative Nodes	7-10	TMV Race 1	NT
Lower Infl.Nodes	2	TMV Race 2	NT
Upper Infl.Nodes	2	TMV Race 22	NT
Stem Pubescence	Moderately hairy	Spotted Wilt	NT
Leaf Type	Tomato	Tomato Yellow	NT
Leaf Rolling	Absent	Bacterial Canker	NT
Leaf Surface	Smooth	Bact. Soft Rot	NT
Leaf Pubescence	Normal	Bacterial Speck	NT
Inflor. Type	Simple	Bacterial Spot	NT
No. Flowers/Infl	05	Bacterial Wilt	NT
Running Inflor.	Absent	Anthracnose	NT
Calyx	Normal	Pyrenochaeta Rot	NT
Calyx Lobes	Shorter than corolla	Collar Rot/Cank.	R
Corolla Color	Yellow	Early Blight	R
Style Pubesc.	Sparse	Fusarium Race 1	R
Anther Morphol	Fused into tube	Fusarium Race 2	R
Fasciation	Absent	Fusarium Race 3	NT
Fruit Shape	Globe	Gray Leaf Spot	NT
Fruit Cross-sect	Round	Late Blight R. 0	NT

(Continued on next page)

VOLUNTARY TOMATO DESCRIPTION 'NC EBR-2' (Continued):

Blossom End	Indented	Late Blight R. 1	NT
Stem End	Flat	Leaf Mold	NT
Pistil Scar	Irregular	Leaf Mold Race 1	NT
Abscission Layer	Absent	Leaf Mold Race 2	NT
Fruit Detachment	At calyx attach.	Leaf Mold Race 3	NT
Fruit L., mm	Ø60		
Fruit Diam., mm	Ø75	Nailhead Spot	NT
Fruit Weight, g	194	Septoria Spot	NT
No. of Locules	5+	Target Leafspot	NT
Fruit Surface	Smooth	Verticillium R.1	R
Frt. Base Color	Light green	Verticillium R.2	NT
Fruit Pattern	Uniform	Colo. P. Beetle	NT
Ripe Fruit Color	Red	So. Nematode	NT
Ripe Flesh Color	Red	Spider Mite	NT
Flesh Uniformity	Uniform	Sugarbeet Worm	NT
Gel Color	Red	Flea Beetle	NT
Longit. Ripening	Uniform	Hornworm	NT
Epidermis Color	Yellow	Fruitworm	NT
Epidermis Peel	Normal	Whitefly	NT
Epidermis Textur	Average	Ozone	NT
Pericarp Th., mm	6-9	Sulfur Dioxide	NT
Stem Scar Size	Medium		
Fruit Season	Medium	Use	Breeding Line
RelativeMaturity	Medium late	Machine Harvest	Not adapted
Culture	Field	Region Adapt.#1	Northeast
Use	Fresh Market	Region Adapt.#2	Southeast

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
PLANT VARIETY PROTECTION OFFICE
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